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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/683,952	10/09/2003	Michael J. Sherrill	010072.02	2775	
7	590 09/13/2004		EXAMINER		
Gary W. Ash	Gary W. Ashley			HENRY, MICHAEL C	
Kosan Biosciences, Inc. 3832 Bay Center Place			ART UNIT	PAPER NUMBER	
Hayward, CA 94545			1623	\ <u></u>	
	•		DATE MAILED: 09/13/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/683,952	SHERRILL ET AL.			
Office Action Summary	Examiner	Art Unit			
	Michael C. Henry	1623			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period v Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONET	ely filed s will be considered timely, the mailing date of this communication. O (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on					
•	action is non-final.				
·— · · ·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
 4) Claim(s) 1-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-14 and 22 is/are rejected. 7) Claim(s) 2 and 15-21 is/are objected to. 8) Claim(s) are subject to restriction and/or 	vn from consideration.	ė vai			
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correcting 11) The oath or declaration is objected to by the Ex					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of 	s have been received. s have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No d in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary (
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Dai 5) Notice of Informal Pa 6) Other:				

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DETAILED ACTION

Claims 1-22 are pending in application

Claim Objections

Claims 15-21 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim should refer to other claims in the alternative only and/or cannot depend from any other multiple dependent claim. See MPEP § 608.01(n). Accordingly, the claims 15-21 have not been further treated on the merits.

Claim 2 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claim 2 recites the intended use of the composition. However, the claim is a composition claim and the recitation of the intended use of the composition is not a further limitation of the claim. In particular, the recitation of an intended use, must result in a tangible structural difference between the product of the independent claim and the product set forth in the dependent claim. In the absence of said structural difference between the product of the independent claim and that of the said dependent claim, said dependent claim is seen to be a substantial duplicate, and said recitation is not afforded critical weight and fails to further limit the product of said dependent claim. The examiner gives very little weight to said intended utility.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-8 and 22 are rejected under 35 U.S.C. 102(b) as being anticipated by Hofmann et al. (US 6,194,181 B1).

In claim 1, applicant claims "A pharmaceutical composition comprising an epothilone together with a pharmaceutically acceptable carrier, wherein the epothilone is provided in a therapeutically acceptable concentration upon administration to a patient." Hofmann et al. disclose applicant's pharmaceutical composition comprising an epothilone (epothilone B) and β cyclodextrin together with a pharmaceutically acceptable carrier (water) (see example 2A, Table 1, col. 24, line 32-col. 25, line 17). It should be noted that Hofmann et al.'s composition contains water, which is a pharmaceutically acceptable carrier (see example 2A, Table 1, col. 24, line 32-col. 25, line 17). Claim 2 is drawn to a pharmaceutical composition of claim 1 wherein the composition is administered orally, is also anticipated by Hofmann et al. (see example 2A, Table 1, col. 24, line 32-col. 25, line 17). It should be noted that claim 2 is a composition claim and the recited intended use pertaining to oral administration of the said composition does not add to the patentability of the composition. In claim 3, applicant claims "The pharmaceutical composition of Claim 1, wherein the composition comprises at least one cyclodextrin." Hofmann et al. disclose applicant's pharmaceutical composition of claim 1, wherein the composition comprises β -cyclodextrin (see example 2A, Table 1, col. 24, line 32-col. 25, line 17). Claim 4, which is drawn to specific cyclodextrins including β -cyclodextrin, is also anticipated by Hofmann et al, since Hofmann et al.'s composition also contains β -cyclodextrin (see example 2A, Table 1, col. 24, line 32-col. 25, line 17). Dependent claims 5 and 7 which are drawn to compositions containing specific epothilone, including epothilone B and hydroxypropyl-β-

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cyclodextrin, is also anticipated by Hofmann et al, since Hofmann et al.'s composition also contains epothilone B and hydroxypropyl- β -cyclodextrin (see example 2A, Table 1, col. 24, line 32-col. 25, line 17). Claim 22 is drawn to "A soft gel cap comprising a pharmaceutical composition of Claim 1." Hofmann et al. disclose applicant's pharmaceutical composition comprising an epothilone (epothilone B) and β -cyclodextrin together with a pharmaceutically acceptable carrier (water) (see example 2A, Table 1, col. 24, line 32-col. 25, line 17). It should be noted that Hofmann et al.'s composition contains water, which is a pharmaceutically acceptable carrier (see example 2A, Table 1, col. 24, line 32-col. 25, line 17)." Also, it should be noted that the said gel cap does not add to the patentability of the said composition.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 9-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hofmann et al.(US 6,194,181 B1).

In claim 1, applicant claims "A pharmaceutical composition comprising an epothilone together with a pharmaceutically acceptable carrier, wherein the epothilone is provided in a therapeutically acceptable concentration upon administration to a patient." Claims 6 and 8 are drawn to the pharmaceutical composition, wherein the epothilone is epothilone D and the cyclodextrin is sulfopropyl-β-cyclodextrin.

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Hofmann et al. disclose a pharmaceutical composition comprising an epothilone (epothilone B) and β -cyclodextrin (see example 2A, Table 1, col. 24, line 32-col. 25, line 17).

The difference between applicant's claimed composition and the composition of Hofmann et al. is type of epothilone or the type of cyclodextrin claimed in the composition. However, Hofmann et al. disclose that the composition can contain, preferably epothilone C, D, E, F or especially A or in particular epothilone B, and cyclodextrins or cyclodextrins derivatives such as sulfo-lower-alkyl ethers (which includes sulfopropyl-β-cyclodextrin) (col.9, line 61 to col. 10, line 62).

It would have been obvious to one having ordinary skill in the art, at the time the claimed invention was made to prepare the composition of Hofmann et al. comprising any epothilone and cyclodextrin suggested by Hofmann et al., such as epothilone D and sulfopropyl- β -cyclodextrin, to be used as an anticancer drugs, based on need.

One having ordinary skill in the art would have been motivated to prepare the composition of Hofmann et al. comprising any epothilone and cyclodextrin suggested by Hofmann et al., such as epothilone D and sulfopropyl- β -cyclodextrin, to be used as an anticancer drugs, based on need.

In claim 9, applicant claims "A lyophilized mixture comprising an epothilone and a cyclodextrin. Dependent claims 10-14 are drawn to a lyophilized mixture comprising specific epothilones and cyclodextrins.

Hofmann et al. disclose a composition comprising an epothilone (epothilone B) and cyclodextrin (see example 2A, Table 1, col. 24, line 32-col. 25, line 17). Hofmann et al. disclose that the composition can contain, preferably epothilone C, D, E, F or especially A or in particular

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epothilone B, and cyclodextrins or cyclodextrins derivatives such as sulfo-lower-alkyl ethers

(which includes sulfopropyl- β -cyclodextrin) (col.9, line 61 to col. 10, line 62).

The difference between applicant's claimed composition and the composition of Hofmann et al. is that applicant's composition is lyophilized. However, it is common to prepare lyophilized composition of therapeutic agents, pharmaceuticals or drugs such as epothilone by conventional pharmaceutical acceptable methods such as lyophilization (for example, see US 6, 015,552, col. 5, lines 28-34).

It would have been obvious to one having ordinary skill in the art, at the time the claimed invention was made to prepare the epothilone composition of Hofmann et al. in the form of a lyophilized composition since epothilone is a therapeutic agent or drug and, it is common to prepare lyophilized composition of therapeutic agents, based on need.

One having ordinary skill in the art would have been motivated to prepare the epothilone composition of Hofmann et al. in the form of a lyophilized composition since epothilone is a therapeutic agent or drug and, it is common to prepare lyophilized composition of therapeutic agents, based on need.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael C. Henry whose telephone number is 571-272-0652. The examiner can normally be reached on 8:30 am to 5:00 pm; Mon-Fri. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James O. Wilson can be reached on 571-272-0661. The fax phone number for the organization where this application or proceeding is assigned is 703 872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 308-1235.

MCH

August 31, 2004.

JAMES O. WILSON

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 1600